

Severe Weather Risk

Thursday, February 20, 2014

Threat Assessment for south-central Indiana
and central Kentucky

Prepared: 2/19/14 2:20 PM EST

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Timing

Start: Two periods of thunderstorms are expected Thursday. The first will be during the overnight hours Thursday morning associated with a warm front passing through the region. The second period will be during the late afternoon and evening hours Thursday.

Greatest Threat: With the first round of storms early Thursday, heavy rain and lightning will be the greatest hazards. With the second round Thursday evening, damaging winds and isolated tornadoes are the greatest threats.

End: Thunderstorms will exit southern Indiana and central Kentucky after midnight EST late Thursday night/Friday morning.

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Expected Impacts

Wind: Damaging winds in excess of 60 MPH are *LIKELY* Thursday evening. The potential areal extent of damaging winds is expected to be large. In addition, the combination of tree damage from recent icing events and the recent snowmelt has led to very soggy ground. Therefore, *the high wind threat with the squall line may result in higher than normal numbers of trees and branches coming down.* Gradient winds outside of thunderstorms will be strong on Thursday. Sustained winds of 20 to 30 MPH with gusts up to 45 MPH will be possible. A Wind ADVISORY is in effect from 10 AM EST Thursday to 1 AM EST Friday.

Tornadoes: Isolated tornadoes embedded within the squall line will be possible late Thursday afternoon and evening.

Hail: Large hail is not expected, though some small hail may occur over central Kentucky Thursday afternoon and evening.

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Expected Impacts

Flooding: Rainfall amounts of one to as much as two inches will be possible. *This rainfall combined with the recent snow melt may result in localized flooding in some areas.*

Lightning: Frequent lightning will be possible with thunderstorm activity late tonight and again on Thursday afternoon.

Aviation: Negative impacts to aviation at Louisville, Lexington, and Bowling Green are likely Thursday evening (mainly between 6 PM EST and midnight EST).

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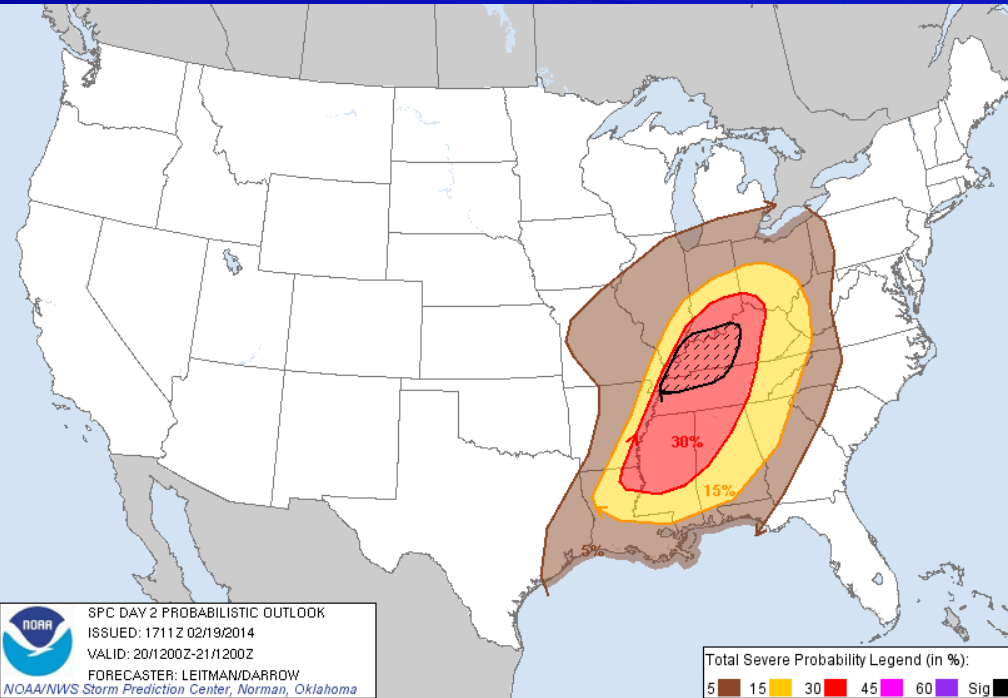


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Severe Weather Outlook



Storm Prediction Center Outlook– Day 2 (Thursday)
Issued 1211 PM EST Wed February 19, 2012

- The Storm Prediction Center has placed southern Indiana & central Kentucky in a slight risk of severe weather for Thursday.
- Primary threat will be damaging winds and isolated tornadoes.
- Highest threat of severe weather will be between 6PM EST Thursday and 1 AM EST Friday in the black hatched area on the graphic.
- Forecast Threat Confidence:
 - Damaging Winds: High
 - Tornadoes: Moderate
 - Large Hail: Low

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Summary

- Two rounds of thunderstorms expected on Thursday, the first overnight early Thursday morning and the second more intense round late Thursday afternoon and evening.
- Highest threat is damaging winds in excess of 60 MPH. Isolated tornadoes are possible as well.
- Recent tree damage due to icing events and soggy ground from recent snowmelt may result in a higher than normal number of trees and limbs coming down due to expected high winds.
- Localized flooding is possible due to the expected rainfall and saturated ground conditions.
- We will be updating these slides during the day on Wednesday as the forecast evolves.

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